ABSTRACT

The invention describes a two-stage optical amplifier adapted for inserting OADM in the mid-stage, and an integrated assembly designed for implementing the amplifier in a way suitable for forming unidirectional and bi-directional configurations useful in optical networks. One of them is a so-called east –west configuration for a bi-directional transmission, where each direction of the optical transmission is served by the two-stage optical amplifier the 1st stage of which belongs to one integrated assembly, and the 2nd stage – to another assembly.